



## Complete Summary

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### TITLE

Hypertension diagnosis and treatment: percentage of adult patients with hypertension, presenting in clinic within the last month, for whom patient education about modifiable risk factors has been documented in the medical record.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Hypertension diagnosis and treatment. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2008 Oct. 59 p. [125 references]

## Measure Domain

### PRIMARY MEASURE DOMAIN

Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

### SECONDARY MEASURE DOMAIN

Does not apply to this measure

## Brief Abstract

### DESCRIPTION

This measure is used to assess the percentage of patients with hypertension presenting in clinic within the last month for whom patient education about modifiable risk factors has been documented in the medical record.

### RATIONALE

The priority aim addressed by this measure is to increase the percentage of adult patients with hypertension who receive patient education, with a focus on the use of non-pharmacological treatments.

### PRIMARY CLINICAL COMPONENT

Hypertension; patient education (weight reduction and maintenance, moderation of dietary sodium, moderation of alcohol intake, adequate physical activity, the Dietary Approaches to Stop Hypertension [DASH] eating plan, tobacco avoidance, drug therapy)

#### **DENOMINATOR DESCRIPTION**

Total number of patients age 18 years and older with hypertension whose medical records are reviewed (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

#### **NUMERATOR DESCRIPTION**

Number of patients whose medical records contain documentation of discussion of modifiable risk factors (see the related "Numerator Inclusions/Exclusions" field in the Complete Summary)

### **Evidence Supporting the Measure**

#### **EVIDENCE SUPPORTING THE CRITERION OF QUALITY**

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

### **Evidence Supporting Need for the Measure**

#### **NEED FOR THE MEASURE**

Unspecified

### **State of Use of the Measure**

#### **STATE OF USE**

Current routine use

#### **CURRENT USE**

Internal quality improvement

### **Application of Measure in its Current Use**

#### **CARE SETTING**

Physician Group Practices/Clinics

#### **PROFESSIONALS RESPONSIBLE FOR HEALTH CARE**

Physicians

**LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED**

Group Clinical Practices

**TARGET POPULATION AGE**

Age greater than or equal to 18 years

**TARGET POPULATION GENDER**

Either male or female

**STRATIFICATION BY VULNERABLE POPULATIONS**

Unspecified

**Characteristics of the Primary Clinical Component**

**INCIDENCE/PREVALENCE**

Unspecified

**ASSOCIATION WITH VULNERABLE POPULATIONS**

Unspecified

**BURDEN OF ILLNESS**

Unspecified

**UTILIZATION**

Unspecified

**COSTS**

Unspecified

**Institute of Medicine National Healthcare Quality Report Categories**

**IOM CARE NEED**

Living with Illness

**IOM DOMAIN**

Effectiveness  
Patient-centeredness

## Data Collection for the Measure

### CASE FINDING

Users of care only

### DESCRIPTION OF CASE FINDING

Patients age 18 years and older who have had a clinic visit within the past month having primary, secondary, or tertiary International Classification of Diseases, Ninth Revision (ICD-9) codes 401.0, 401.1, and/or 401.9.

Medical groups may generate a list of patients meeting the inclusion criteria. This list would be newly created not less than every 6 to 12 months to remain current. Data may be collected by medical record review. Determine the presence of documentation of a discussion about modifiable risk factors at the clinic visit within the past month.

Randomly selected cases may be reviewed monthly.

### DENOMINATOR SAMPLING FRAME

Patients associated with provider

### DENOMINATOR INCLUSIONS/EXCLUSIONS

#### Inclusions

Total number of patients age 18 years and older with hypertension whose medical records are reviewed\*

\*Patients age 18 years and older who have had a clinic visit within the past month having primary, secondary, or tertiary International Classification of Diseases, Ninth Revision (ICD-9) codes 401.0, 401.1, and/or 401.9.

#### Exclusions

Unspecified

### RELATIONSHIP OF DENOMINATOR TO NUMERATOR

All cases in the denominator are equally eligible to appear in the numerator

### DENOMINATOR (INDEX) EVENT

Clinical Condition  
Encounter

### DENOMINATOR TIME WINDOW

Time window is a fixed period of time

## **NUMERATOR INCLUSIONS/EXCLUSIONS**

### **Inclusions**

Number of patients whose medical records contain documentation\* of discussion of modifiable risk factors

\*Documented is defined as any evidence in the medical record that a clinician discussed modifiable risk factors that include weight reduction and maintenance, moderation of dietary sodium, moderation of alcohol intake, adequate physical activity, the Dietary Approaches to Stop Hypertension (DASH) eating plan, tobacco avoidance, and drug therapy.

### **Exclusions**

Unspecified

## **MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS**

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

## **NUMERATOR TIME WINDOW**

Encounter or point in time

## **DATA SOURCE**

Administrative data  
Medical record

## **LEVEL OF DETERMINATION OF QUALITY**

Individual Case

## **PRE-EXISTING INSTRUMENT USED**

Unspecified

## **Computation of the Measure**

## **SCORING**

Rate

## **INTERPRETATION OF SCORE**

Better quality is associated with a higher score

## **ALLOWANCE FOR PATIENT FACTORS**

Unspecified

## **STANDARD OF COMPARISON**

Internal time comparison

## **Evaluation of Measure Properties**

## **EXTENT OF MEASURE TESTING**

Unspecified

## **Identifying Information**

## **ORIGINAL TITLE**

Percentage of adult patients with hypertension, presenting in clinic within the last month, for whom patient education about modifiable risk factors has been documented in the medical record.

## **MEASURE COLLECTION**

[Hypertension Diagnosis and Treatment Measures](#)

## **DEVELOPER**

Institute for Clinical Systems Improvement

## **FUNDING SOURCE(S)**

The following Minnesota health plans provide direct financial support: Blue Cross and Blue Shield of Minnesota, HealthPartners, Medica, Metropolitan Health Plan, PreferredOne and UCare Minnesota. In-kind support is provided by the Institute for Clinical Systems Improvement's (ICSI) members.

## **COMPOSITION OF THE GROUP THAT DEVELOPED THE MEASURE**

*Work Group Members:* Gary Schwartz, MD (Work Group Leader) (Mayo Clinic) (Nephrology); Patrick O'Connor, MD, MPH (HealthPartners Medical Group) (Family Practice); Anthony Woolley, MD (Park Nicollet Health Services) (Internal Medicine/Nephrology); Vincent Canzanella, MD (Mayo Clinic) (Nephrology); Lee Mork, MS, RPh (Allina Medical Clinic) (Pharmacy); Penny Fredrickson (ICSI) (Facilitator); Myounghee Hanson (ICSI) (Facilitator)

## **FINANCIAL DISCLOSURES/OTHER POTENTIAL CONFLICTS OF INTEREST**

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Anthony Woolley receives research / grant funding from Pfizer, 100% of which is administered through his organization.

No other work group members have potential conflicts of interest to disclose.

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#### **ADAPTATION**

Measure was not adapted from another source.

#### **RELEASE DATE**

2003 Apr

#### **REVISION DATE**

2008 Oct

#### **MEASURE STATUS**

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Hypertension diagnosis and treatment. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2006 Oct. 53 p.

#### **SOURCE(S)**

Institute for Clinical Systems Improvement (ICSI). Hypertension diagnosis and treatment. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2008 Oct. 59 p. [125 references]

#### **MEASURE AVAILABILITY**

The individual measure, "Percentage of Adult Patients with Hypertension, Presenting in Clinic within the Last Month, for Whom Patient Education About Modifiable Risk Factors Has Been Documented in the Medical Record," is published in "Health Care Guideline: Hypertension Diagnosis and Treatment." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: [www.icsi.org](http://www.icsi.org); e-mail: [icsi.info@icsi.org](mailto:icsi.info@icsi.org).

## **NQMC STATUS**

This NQMC summary was completed by ECRI on February 6, 2004. This summary was updated by ECRI Institute on July 27, 2004, on November 16, 2005, on January 23, 2007, and again on February 19, 2009.

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